

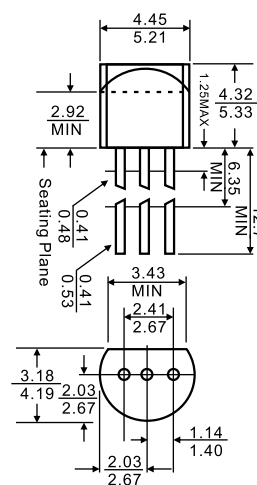
BC546/BC547/BC548(NPN)

TO-92 Bipolar Transistors



1. COLLECTOR
2. BASE
3. EMITTER

TO-92



Dimensions in inches and (millimeters)

Features

- ◇ High Voltage
- ◇ Complement to BC556,BC557,BC558

MAXIMUM RATINGS (T_A=25°C unless otherwise noted)

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	BC546 80	V
		BC547 50	
		BC548 30	
V _{CEO}	Collector-Emitter Voltage	BC546 65	V
		BC547 45	
		BC548 30	
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current -Continuous	100	mA
P _D	Total Device Dissipation	625	mW
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

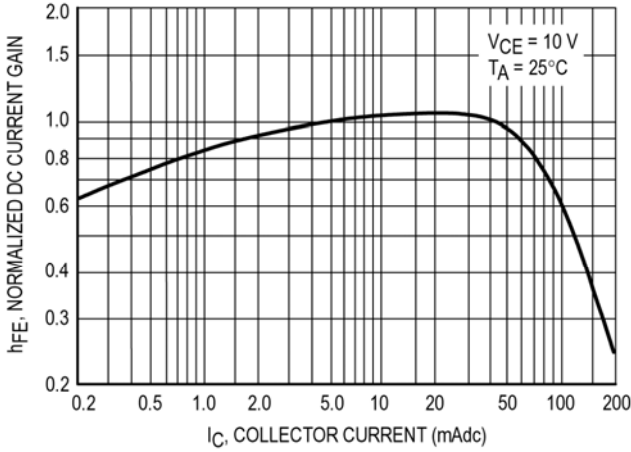
Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	BC546 BC547 BC548	V _{CBO}	I _C = 100μA , I _E =0	80 50 30	V
Collector-emitter breakdown voltage	BC546 BC547 BC548	V _{CEO}	I _C = 1mA , I _B =0	65 45 30	V
Emitter-base breakdown voltage		V _{EBO}	I _E = 10μA, I _C =0	6	V
Collector cut-off current	BC546 BC547 BC548	I _{CBO}	V _{CB} = 70V, I _E =0 V _{CB} = 50 V, I _E =0 V _{CB} = 30V, I _E =0	0.1	μA
Collector cut-off current	BC546 BC547 BC548	I _{CEO}	V _{CE} = 60 V, I _B =0 V _{CE} = 45 V, I _B =0 V _{CE} = 30 V, I _B =0	0.1	μA
Emitter cut-off current	BC546 BC547 BC548	I _{EBO}	V _{EB} = 5V, I _C =0	0.1	μA
DC current gain	BC546 BC547 BC548 BC546A/BC547A/BC548A BC546B/BC547B/BC548B BC546C/BC547C/BC548C	h _{FE}	V _{CE} =5V, I _C = 2mA	110 110 110 110 200 420	800 800 800 220 450 800
Collector-emitter saturation voltage		V _{CE(sat)}	I _C =100mA, I _B = 5mA	0.3	V
Base-emitter saturation voltage		V _{BE(sat)}	I _C = 100mA, I _B =5mA	1.1	V
Transition frequency		f _T	V _{CE} = 5V, I _C = 10mA f = 100MHz	150	MHz

BC546/BC547/BC548(NPN)

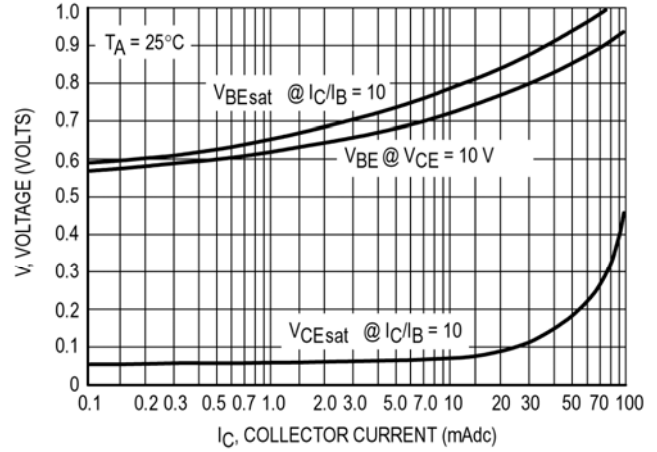
TO-92 Bipolar Transistors



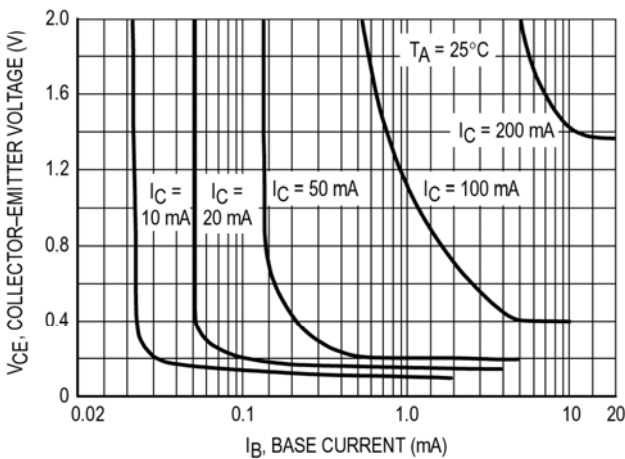
Typical Characteristics



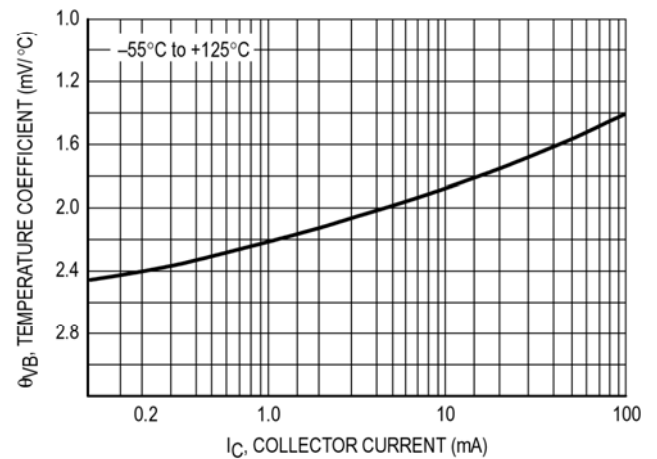
Normalized DC Current Gain



"Saturation" and "On" Voltages

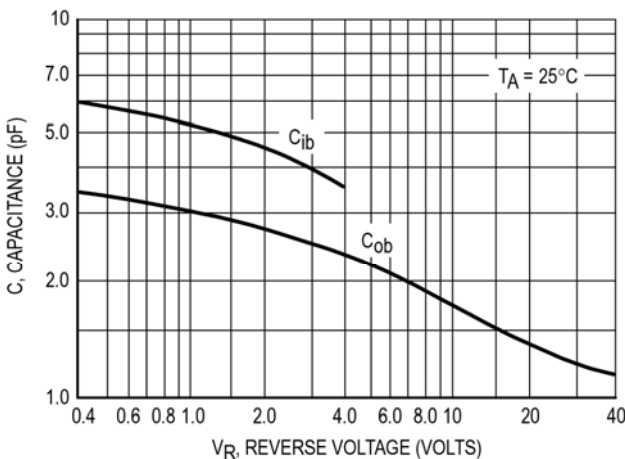


Collector Saturation Region

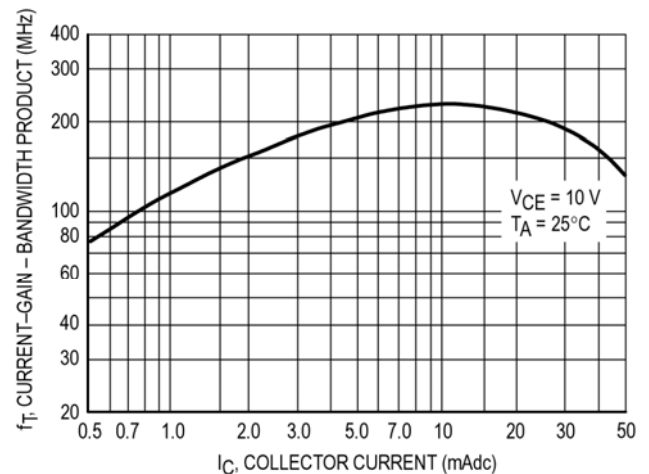


Base-Emitter Temperature Coefficient

BC547/BC548



Capacitances



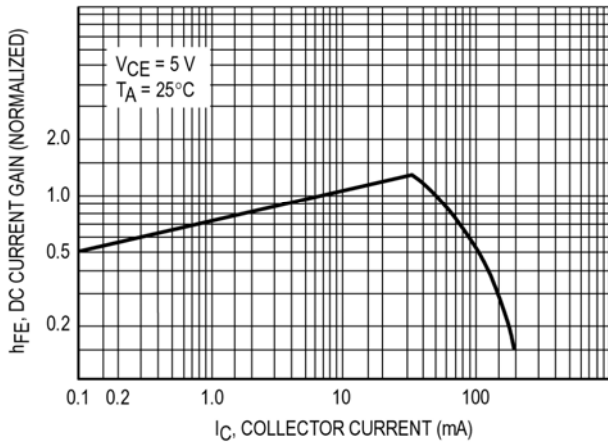
Current-Gain - Bandwidth Product

BC546/BC547/BC548(NPN)

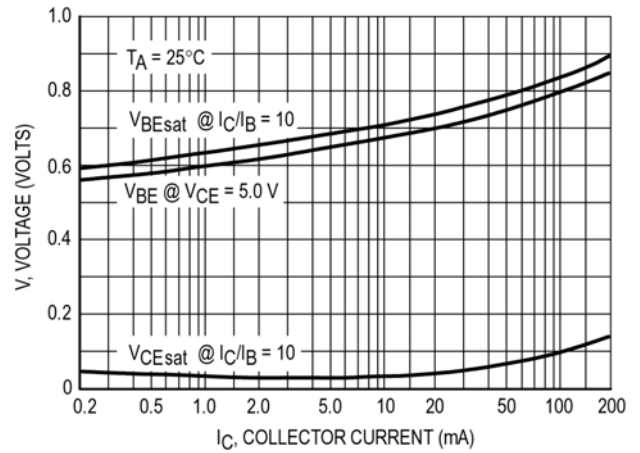
TO-92 Bipolar Transistors



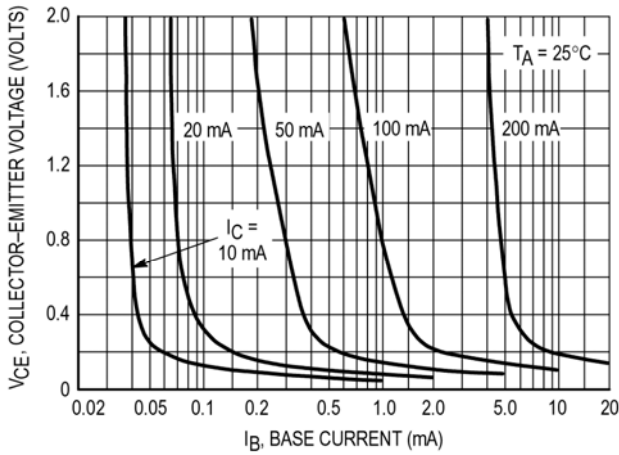
BC547/BC548



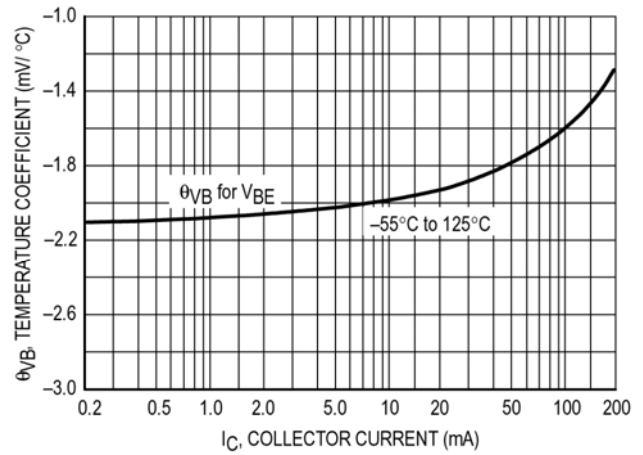
DC Current Gain



"On" Voltage

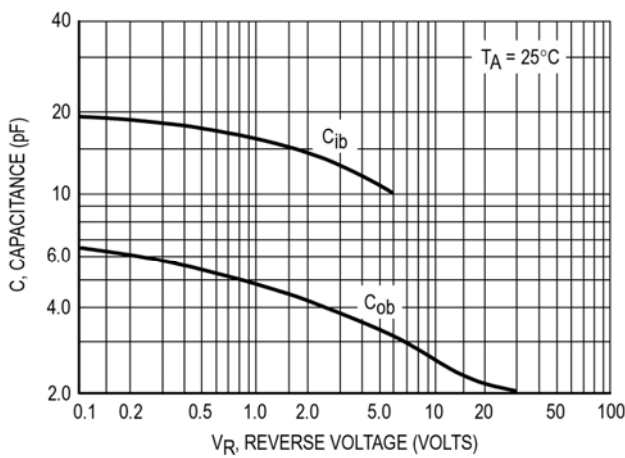


Collector Saturation Region

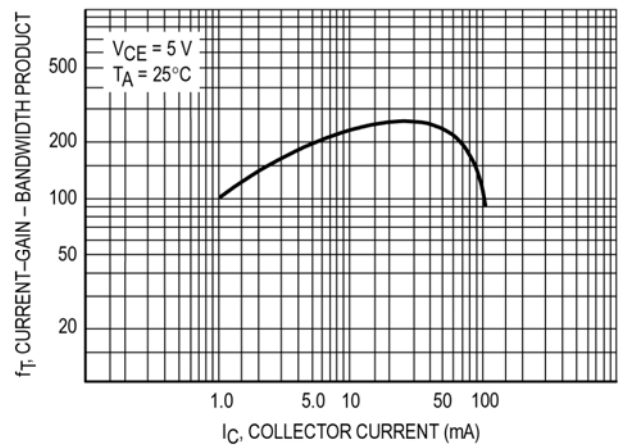


Base-Emitter Temperature Coefficient

BC546



Capacitance



Current-Gain - Bandwidth Product

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